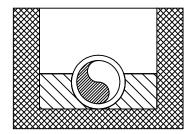
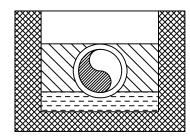


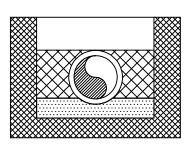
TYPE 1 FLAT-BOTTOM\* TRENCH, LOOSE EMBEDMENT E = 50 psi (340 kPa). K = 0.110



TYPE 2 FLAT-BOTTOM\* TRENCH, EMBEDMENT LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE. E=200~psi~(1,380~kPa).~K=0.110

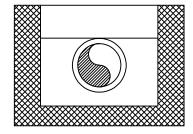


TYPE 3 PIPE BEDDED ON 4" (100 mm) MINIMUM OF LOOSE SOIL.\*\* EMBEDMENT LIGHTLY CONSOLIDATED TO TOP OF PIPE. E = 400 psi (2,760 kPa). K = 0.102



TYPE 4

PIPE BEDDED ON SAND, GRAVEL OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4" (100 mm) MINIMUM. EMBEDMENT COMPACTED TO TOP OF PIPE.(APPROXIMATELY 80% STANDARD PROCTOR. AASHTO T-99 OR ASTM D 698) E = 1,000 psi (6,900 kPa). K = 0.096



TYPE 5

PIPE ENBEDDED IN COMPACTED GRANULAR
MATERIAL TO CENTERLINE OF PIPE. COMPACTED
GRANULAR OR SELECT MATERIAL TO TOP OF PIPE.
(APPROXIMATELY 90% STANDARD PROCTOR.
AASHTO T-99 OR ASTM D 698)
E = 2,000 psi (13,800 kPa). K = 0.083

REV:

NOTE: REQUIRED EMBEDMENT TYPE WILL DEPEND ON THE PIPE'S DIMENSION RATIO, INTERNAL OPERATIING PRESSURE, AND EXTERNAL LOAD, AND SHALL BE SPECIFIED BY THE PURCHASER. (SEE SEC. 5.3)

\*"FLAT—BOTTOM" IS DEFINED AS UNDISTURBED EARTH.

\*\* "LOOSE SOIL" OR "SELECT MATERIAL" IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS
FOREIGN MATERIAL, AND FROZEN EARTH. A SOFT "LOOSE SOIL" BEDDING WILL CONTOUR TO THE PIPE BOTTOM. CAUTION
MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE.

From AWWA C.605 UNDERGROUND INSTALLATION OF PVC PIPE



PIPE ENVELOPE REQUIREMENTS

1)-1()

N.T.S.

7-19-95 DATE:

DETAIL